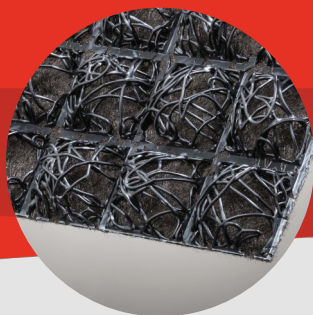


Enkadrain® 3611R

Drainage solutions



Description	<p>Enkadrain 3611R is one of a new generation of environmentally conscious Enkadrain products. This drainage composite consists of a post-industrial recycled polypropylene drainage core of fused, entangled filaments and a geocomposite fabric bonded to one side. The entangled filaments are molded into a square waffle pattern that maintains the flexible design of other Enka-drain products. This product, because it has 40% post-industrial recycled content, can help contribute up to 2 LEED points when used in conjunction with other recycled content products. Enkadrain 3611R can contribute towards additional LEED points when used with a green roof by reducing storm-water runoff, heat islands and energy consumption.</p>		
Recommended Applications	<ul style="list-style-type: none"> ☑ Foundation walls ☑ Green roofs 	<ul style="list-style-type: none"> ☑ Plaza decks ☑ Retaining walls 	<ul style="list-style-type: none"> ☑ Beneath slabs ☑ Earth sheltered homes
Features and Benefits	<ul style="list-style-type: none"> ☑ Excellent durability ☑ Continuous flow in all directions, even under high loads ☑ Conforms to irregular surfaces and corners with complete and effective coverage 	<ul style="list-style-type: none"> ☑ Long rolls reduce installation costs by eliminating interlocking and excessive seams ☑ Protects waterproofing during and after backfill ☑ Waffle design creates open flow 	<ul style="list-style-type: none"> path – even during backfill ☑ Recycled content polymer contributes towards LEED points ☑ Increased flow rates over same thickness nylon and HDPE drains ☑ 3" fabric overlap flap

Technical Data

Physical Properties	Property	English Units	Metric Units
	Core Material	Recycled Polypropylene	
	Thickness	0.45 in	11.43 mm
	Total Weight	20.5 oz/yd ²	695.2 g/m ²
	Core Weight	16.0 oz/yd ²	542.6 g/m ²
	Low & Bonar Compressive Load Test ¹	> 30,000 psf	1436 kN/m ² / No failure*

¹ Low & Bonar Test Method: ASTM D 1621 modified and ASTM D4716

* Failure defined as reaching yield point or no continued measurable flow under stated load

Quality Assurance

The Quality Management System of Low & Bonar has been approved to the ISO 9001 Quality Management System Standard. Certificates are available on request. The data reproduced in this document reflects our best knowledge at the time of issue. It is subject to change arising from new research and development, as are the properties of the products described. We do not accept any liability for results obtained by using this information or the products mentioned. © Low & Bonar

Technical Data

Flow Rates

Pressure	1.0 Gradient	0.5 Gradient	0.2 Gradient
250 psf	22.5 gal/min/ft	15.5 gal/min/ft	9.2 gal/min/ft
500 psf	22.0 gal/min/ft	15.2 gal/min/ft	8.7 gal/min/ft
1000 psf	20.7 gal/min/ft	14.3 gal/min/ft	8.4 gal/min/ft
2000 psf	19.0 gal/min/ft	13.1 gal/min/ft	8.3 gal/min/ft
3000 psf	16.0 gal/min/ft	11.0 gal/min/ft	6.4 gal/min/ft
3600 psf	13.0 gal/min/ft	8.7 gal/min/ft	5.4 gal/min/ft
5000 psf	8.05 gal/min/ft	5.4 gal/min/ft	3.1 gal/min/ft
8000 psf	3.2 gal/min/ft	2.0 gal/min/ft	1.1 gal/min/ft

Typical flow vs. pressure for vertical applications (ASTM D 4716) Sample Configuration: Plate/Enkadrain/Plate

Fabric Properties

Property	English Units	Metric Units	Test Method
Polymer	Polypropylene		
Fabric Color	Black		
Weight	4.5 oz/yd ²	152.6 g/m ²	ASTM D 5261
Grab Strength MD/CD	120.0 lbs	0.54 kN	ASTM D 4632
Grab Elongation	50%	50%	ASTM D 4632
Trapezoidal Tear	50.0 lbs	0.22 kN	ASTM D 4533
Puncture Strength	70.0 lbs	0.31 kN	ASTM D 4833
AOS (maximum average)	70 US Sieve	0.212 mm	ASTM D 4751
Flow Rate	120.0 gal/min/ft ²	4887 l/sec/m ²	ASTM D 4491
Permittivity	1.8 sec ⁻¹	1.8 sec ⁻¹	ASTM D 4491

Values are MARV Minimum Average Roll Value

Polymer Properties

Polypropylene has excellent resistance to organic solvents, degreasing agents, acids, and alkalines. It has tensile strength superior to high density polyethylene. It has a low moisture absorption rate, is resistant to staining, and is very light weight.

Packaging

Property	English Units	Metric Units
Product ID	3611-062-BR01	
Core Width	39.0 in	99.1 cm
Length	62 ft	18.9 m
Area	22.4 yd ²	18.7 m ²
Gross Roll Weight	30.1 lbs	13.7 kg

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